210-101W Water Temperature Sensor

The **210-101W Water Temperature Sensor** is a rugged and reliable device for highly accurate submersible water temperature or soil temperature measurement. It produces a 4-20 mA output signal, which is an industrial standard for process control monitoring. Most PLCs (Programmable Logic Controllers), SCADA equipment, and data acquisition systems accept this signal directly.

If a voltage signal is required, the sensor output may be converted by reading the voltage across a precision resistor in series with the signal wire. When the 4-20 mA signal is dropped across a 250 ohm resistor, the output will be 1-5 Vdc.

The 210-101W sensor probe is molded to 25 feet of marine grade FEP jacketed 2-conductor 20AWG MIL spec MS22759 wire. Additional cable lengths up to 500 feet are available.

The 210-101W has a two-wire configuration, 4-20 mA loop power. The unit's electronics are completely encapsulated in water-resistant potting compound inside the stainless steel housing.

Specifications

Output: 4-20 mA (loop configuration)
Range: -50°C to +50°C (-58°F to 122°F) 4 mA = -50°, 20 mA = +50°C
Accuracy: ± 0.2°C or ± 0.4°F, factory calibrated 0.01% linear output
Sensor element: 1000 ohm platinum resistance
Probe housing: 3/8" 304/316 stainless steel, sealed tube
Signal conditioner: Built-in RTD transmitter
Operating voltage: 12 to 40 Vdc
Current draw: Same as sensor output
Warm-up time: 2 seconds
Operating temperature: -50 to 50°C (-58 to 122°F)
Size of probe assembly: 3/8" diameter x 6" long , 12 oz
Cable: 25' 2-conductor teflon FEP

Ordering Information

210-101W	Water/Soil Temperature Sensor 2-wire 4-20 mA loop powered includes 25' cable